

# ABSTRACT

An object of the present invention is to provide a filter cartridge having an high filtering accuracy, a long filter life and a good liquid-passing property, in which an initial trapped particle diameter little changes, a pressure loss is small and neither bubbling nor falling of the filter material is observed. Such a filter cartridge is obtained by a production process, which comprises winding a non-woven fabric strip comprising a thermoplastic fiber around a perforated cylinder in a twill form, wherein a non-woven fabric strip satisfies the following equation (A):

$$\log_{10} Y < 3.75 - 0.6 (\log_{10} X) \quad (A)$$

wherein X (cm<sup>3</sup>/cm<sup>2</sup>/sec) is an airflow amount of the non-woven fabric strip, and Y (g/m<sup>2</sup>) is a basis weight thereof; or a production process, which comprises winding in a twill form, wherein a number (W) of winding a non-woven fabric strip around a perforated cylinder from one end to the other end is one to 10 per a length of 250 mm in the perforated cylinder.

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